

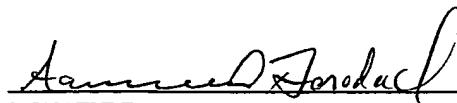
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 19461-002US1 542027 U.S. APPLICATION NUMBER (If known) see 37 C.F.R. 1.5 107559544
INTERNATIONAL APPLICATION NO. PCT/JP2004/007990	INTERNATIONAL FILING DATE 2 June 2004	PRIORITY DATE CLAIMED 26 November 2003
TITLE OF INVENTION Polysulfone-Based Hollow-Fiber Membrane With Selective Permeability		
APPLICANT(S) FOR DO/EO/US Kimihiro Mabuchi, Noriyuki Tamamura, Hidehiko Sakurai, Noriaki Kato, Hiroshi Shibano and Katsuhiko Nose		
<p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</p> <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ul style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). <p>Items 11 to 20 below concern document(s) or information included:</p> <ol style="list-style-type: none"> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98. 12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 C.F.R. 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 C.F.R. 1.821 - 1.825. 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 		
CERTIFICATE OF MAILING BY EXPRESS MAIL Express Mail Label No. ET679044523US Date of Deposit: December 2, 2005		

U.S. APPLICATION NO. (See 37 CFR 1.5)	INTERNATIONAL APPLICATION NO. PCT/JP2004/007990			ATTORNEY'S DOCKET NUMBER 19461-002US1																																																																																																											
<p>20. Other items or information: International Search Report; Application cover sheet; Front cover of WO 2005/051460; PCT/IB/301&304; Form PTO-1449; 16 listed references</p>																																																																																																															
<p>The following fees have been submitted</p> <table border="1"> <tr> <td colspan="2">21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.192(a))</td> <td>\$300</td> <td>CALCULATIONS PTO USE ONLY</td> </tr> <tr> <td colspan="2"></td> <td>\$300.00</td> <td></td> </tr> <tr> <td colspan="2">22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by the IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)</td> <td>\$0</td> <td>\$200.00</td> </tr> <tr> <td colspan="2">All other situations</td> <td>\$200</td> <td></td> </tr> <tr> <td colspan="2">23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.92(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)</td> <td>\$0</td> <td>\$400.00</td> </tr> <tr> <td colspan="2">Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....</td> <td>\$100</td> <td></td> </tr> <tr> <td colspan="2">International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB</td> <td>\$400</td> <td></td> </tr> <tr> <td colspan="2">All other situations</td> <td>\$500</td> <td></td> </tr> <tr> <td colspan="2">Total of 21, 22 and 23 =</td> <td>\$900.00</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing filed in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</td> <td></td> <td></td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td>RATE</td> </tr> <tr> <td>72-100 =</td> <td>0/50=</td> <td>0</td> <td>X \$250</td> </tr> <tr> <td colspan="2">Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 C.F.R. 1.492(h)).</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2"> <table border="1"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td>9 - 20 =</td> <td>0</td> <td>x \$50</td> </tr> <tr> <td>Independent Claims</td> <td>1 - 3 =</td> <td>0</td> <td>x \$200</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td></td> <td>+ \$360</td> </tr> <tr> <td colspan="4">TOTAL OF ABOVE CALCULATIONS = \$900.00</td> </tr> </tbody> </table> </td> <td></td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Applicant claims small entity status. See 37 C.F.R. 1.27. Fees above are reduced by 1/2.</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>SUBTOTAL =</td> <td>\$900.00</td> </tr> <tr> <td colspan="2">Processing fee of \$130 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 C.F.R. 1.492(i))</td> <td>+ \$0.00</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>TOTAL NATIONAL FEE =</td> <td>\$900.00</td> </tr> <tr> <td colspan="2">Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property</td> <td>+ \$940.00</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>TOTAL FEES ENCLOSED =</td> <td>\$940.00</td> </tr> <tr> <td colspan="2"></td> <td>Amount to be refunded:</td> <td>\$0.00</td> </tr> <tr> <td colspan="2"></td> <td>Amount to be charged:</td> <td>\$0.00</td> </tr> </table>				21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.192(a))		\$300	CALCULATIONS PTO USE ONLY			\$300.00		22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by the IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)		\$0	\$200.00	All other situations		\$200		23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.92(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)		\$0	\$400.00	Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....		\$100		International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB		\$400		All other situations		\$500		Total of 21, 22 and 23 =		\$900.00		<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing filed in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.				Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	72-100 =	0/50=	0	X \$250	Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 C.F.R. 1.492(h)).		\$0.00		<table border="1"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td>9 - 20 =</td> <td>0</td> <td>x \$50</td> </tr> <tr> <td>Independent Claims</td> <td>1 - 3 =</td> <td>0</td> <td>x \$200</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td></td> <td>+ \$360</td> </tr> <tr> <td colspan="4">TOTAL OF ABOVE CALCULATIONS = \$900.00</td> </tr> </tbody> </table>		CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total Claims	9 - 20 =	0	x \$50	Independent Claims	1 - 3 =	0	x \$200	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	TOTAL OF ABOVE CALCULATIONS = \$900.00						<input type="checkbox"/> Applicant claims small entity status. See 37 C.F.R. 1.27. Fees above are reduced by 1/2.		\$0.00				SUBTOTAL =	\$900.00	Processing fee of \$130 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 C.F.R. 1.492(i))		+ \$0.00				TOTAL NATIONAL FEE =	\$900.00	Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property		+ \$940.00				TOTAL FEES ENCLOSED =	\$940.00			Amount to be refunded:	\$0.00			Amount to be charged:	\$0.00
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.192(a))		\$300	CALCULATIONS PTO USE ONLY																																																																																																												
		\$300.00																																																																																																													
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by the IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)		\$0	\$200.00																																																																																																												
All other situations		\$200																																																																																																													
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.92(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)		\$0	\$400.00																																																																																																												
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....		\$100																																																																																																													
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB		\$400																																																																																																													
All other situations		\$500																																																																																																													
Total of 21, 22 and 23 =		\$900.00																																																																																																													
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing filed in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.																																																																																																															
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE																																																																																																												
72-100 =	0/50=	0	X \$250																																																																																																												
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 C.F.R. 1.492(h)).		\$0.00																																																																																																													
<table border="1"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td>9 - 20 =</td> <td>0</td> <td>x \$50</td> </tr> <tr> <td>Independent Claims</td> <td>1 - 3 =</td> <td>0</td> <td>x \$200</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td></td> <td>+ \$360</td> </tr> <tr> <td colspan="4">TOTAL OF ABOVE CALCULATIONS = \$900.00</td> </tr> </tbody> </table>		CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total Claims	9 - 20 =	0	x \$50	Independent Claims	1 - 3 =	0	x \$200	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	TOTAL OF ABOVE CALCULATIONS = \$900.00																																																																																													
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																																																																																																												
Total Claims	9 - 20 =	0	x \$50																																																																																																												
Independent Claims	1 - 3 =	0	x \$200																																																																																																												
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360																																																																																																												
TOTAL OF ABOVE CALCULATIONS = \$900.00																																																																																																															
<input type="checkbox"/> Applicant claims small entity status. See 37 C.F.R. 1.27. Fees above are reduced by 1/2.		\$0.00																																																																																																													
		SUBTOTAL =	\$900.00																																																																																																												
Processing fee of \$130 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 C.F.R. 1.492(i))		+ \$0.00																																																																																																													
		TOTAL NATIONAL FEE =	\$900.00																																																																																																												
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property		+ \$940.00																																																																																																													
		TOTAL FEES ENCLOSED =	\$940.00																																																																																																												
		Amount to be refunded:	\$0.00																																																																																																												
		Amount to be charged:	\$0.00																																																																																																												

- A check in the amount of \$940.00 to cover the above fees is enclosed.
- Please charge my Deposit Account No. 06-1050 in the amount of \$0.00 to cover the above fees.
A duplicate copy of this sheet is enclosed.
- The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-1050. A duplicate copy of this sheet is enclosed.
- Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 C.F.R. 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:



SIGNATURE

PTO Customer No: 26211

Samuel Borodach

NAME

38,388

REGISTRATION NUMBER